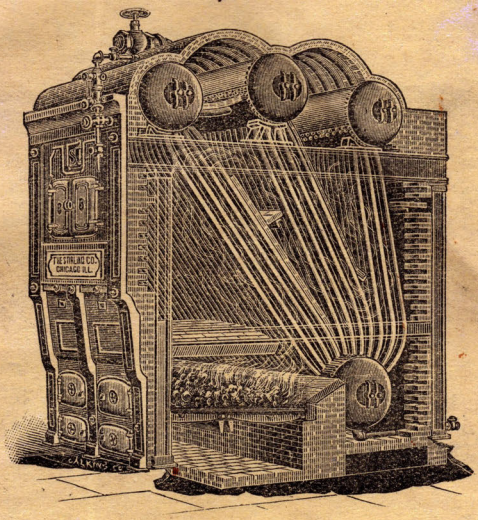
1-5 No 9 July 1903

Specifications and Proposal

NO. 2743



250 HORSE POWER

STIRLING WATER TUBE STEAM BOILER

TO

Lehigh Coal & Navigation Co.
Lansford Pa.

THE STIRLING COMPANY,

— GENERAL OFFICES, —

CHICAGO.

SALES AGENCIES:

BOSTON	NEW YORK	PHILADELPHIA
BALTIMORE	PITTSBURGH	CLEVELAND
TOLEDO	DENVER	MINNEAPOLIS
SAN FRANCISCO	NEW ORLEANS.	PORTLAND, O.

For Colliery No 9

THE GLOBE LEGAL WRAPPER. Patented Feb. 11, 1890. First Quality
DIRECTIONS.—Elevate the metal points—attach the manuscript—then bend the points down flat—dampen the gummed flap and stick it down—this fastens the papers and hides the metal.

O. [illegible], PRES.
J. K. ROBINSON, VICE-PRES
EDW. R. STETTINIUS, TREAS.
H. S. PELL, SUPT.

SHOPS AND FOUNDRIES:
BARBERTON, OHIO

The Stirling Company

General Offices, Pullman Building,
CHICAGO, ILL.,

February 10, 1900. 1

SPECIFICATION No. 2745
CLASS B
No. 0

For and in consideration of the hereafter named amount, we propose to furnish

To Mr. W. D. Zehner, Supt.,
Lehigh Coal & Navigation Co., Lansford, Pa.
Colliery # 9.

250 Horse Power Water-Tube Boiler.

(One H. P.=30 lbs of water evaporated per hour from 100° at 70 lbs. pressure.)

NUMBER AND ARRANGEMENT.

In one units of 250 H. P. each, set singly
each boiler having 2587 square feet of heating surface, and 12' 5" wide by 6'6" deep. square feet of grate surface.

DRUMS.

Each boiler will have three steam drums 36 " X 17 ' 2½ ", and one mud drum 36 " X 14 ' 8½ ". In the steam drums the thickness of tube plates will be 9/16 " and of other plates 3/8 "; in the mud drum the thickness of tube plates will be 9/16 ", and of other plates 3/8 "; thickness of blank heads of drums will be ½ ", and of manhole heads ¾ ". There will be a manhole, 12 x 16 inches, placed in hand end of each drum, facing setting, with frame and plate faced eliptically to make a good joint, and two arches and bolts to hold the plate in place. All flanges will be wrought steel and will be riveted to drums for steam, blow off, feed and water column connections, All plates and heads will be of best open hearth steel of a tensile strength of from 52,000 to 60,000 lbs. per sq. in.

TUBES.

Each boiler will have 297 best lap welded, mild steel tubes, 3¼ inches in diameter, each tube to be expanded directly into drilled holes in the tube sheets of the steam and water drums.

VALVES AND FITTINGS.

Each boiler will be provided with a flanged ~~or screwed steam~~ steam valve & Cast iron connection (to be approved) outlet (as may be desired) for steam pipe 8 " diameter, one check and one feed valve 2½ " diameter, one blow-off valve 2½ " diameter, two pop safety valves 4 " diameter, set to blow off at 150 pounds pressure (150 lbs. unless otherwise ordered), one steam gauge 12 " diameter, one water column with water gauge, and three gauge cocks with lifting handles, and all necessary pipes and fittings to attach same to the boilers.

SUPPORTS AND FRONTS.

The boilers will be carried on wrought iron supports, so arranged that they will be sustained entirely independent of the brickwork, and provided with a cast iron front of ornamental design with necessary firing and ash pit doors.

FIXTURES.

The fixtures will consist of ~~a set of grate bars with bearers~~ and dead plates, and cleaning doors to give access to tubes. Unless otherwise specified, a stack base plate will be furnished, on which a chimney can be set, but if separate chimney is used, proper fittings to connect to breeching will be furnished. There will also be furnished a set of firing tools, consisting of poker, slice bar, fire brush, scraper and rubber steam hose and blower for cleaning outside of tubes.

SPACE.

Space occupied by one boiler including brickwork, 16 feet 6 in. wide 15 feet 0 in. deep, 15 feet 8 in. high to top of steam opening.

BRICKWORK.

The brickwork (to be furnished by the purchaser) will require above foundations about:

20,880	Red Brick	210	Fire Brick Tile, 12 x 2 x 12
4,900	No. 1 Fire Brick	28	Fire Brick Tile, 12 x 2 x 15
	No. 2 " "	14	Fire Brick Tile, 12 x 2 x 18
430	Best Fire Brick $2\frac{1}{2}$x2x$4\frac{1}{2}$x9 for arches	360	Best Fire Brick for Arches. (Square)

TESTING.

The boiler will be guaranteed for a working pressure of 150 lbs. per square inch, and will be tested and made tight under a water pressure of 200 lbs. per square inch before being enclosed in the brickwork, the purchaser to provide water for said test and facilities for introducing same into the boilers.

DRAWINGS AND ERECTION.

Drawings for the foundation and setting of the boiler will be furnished, ~~together with the services of a man to superintend the erection of the ironwork _____ days; the purchaser paying his board, and his traveling expenses from Barberton and return, also his wages at $5.00 per day should he be detained over the time specified above.~~ Purchaser is to furnish all other labor and blocking and rigging.

DELIVERY.

To be delivered f. o. b. cars Lansford, Pa.

PRICE.

For the sum of Two thousand Eight hundred and Twenty-nine Dollars and Seventy Eight Cents. ($2829.78).

Payable in New York or Chicago Exchange.

TERMS.

~~One-half on presentation of sight draft with bill of lading. Balance 60 days from date of shipment. Foreign and mining shipments on presentation of Bill of Lading.~~

One half contract price thirty (30) days after delivery, balance after boilers are under steam and proven in accordance with contract.

This proposal will be void if not accepted within thirty days. All previous communications between the parties hereto, either verbal or in writing, are hereby abrogated, and this proposal when accepted shall constitute a contract. Any modifications in this proposal must be in writing and attached hereto. We assume no liability for damages on account of delays. The title and right of possession to the material we furnish remains in The Stirling Company until the same has been fully paid for in cash.

Owing to unsettled condition of Steel and Iron markets, this proposition subject to withdrawal without notice.

THE STIRLING COMPANY,

By James Muhlig

ACCEPTANCE.

Philadelphia, February 13, 1900

THE STIRLING COMPANY,
CHICAGO, ILL.

GENTLEMEN;—We hereby accept the foregoing proposition.

Name required on front Same as last

Description of fuel to be used Fine coal

Date to be delivered April 1. 1900

Shipments to be consigned to The Lehigh Coal & Nav Co
Lansford Pa

Yours truly,

THE LEHIGH COAL & NAVIGATION COMPANY,

Signature by Lewis A. Riley
PRESIDENT.